GE Medical Systems
Integrated Imaging Solutions

PathSpeed CR SP1001 User Manual¶

OI10026

Release 0

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PathSpeed CR SP1001

User Manual

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Chapter 1

Introducing the PathSpeed SP1001

This chapter draws attention to important safety precautions and introduces the PathSpeed CR SP1001.

- ❑ PathSpeed CR SP1001features
- ❑ Safety precautions
- ❑ Safety compliance
- ❑ Operating modes
- ❑ The user interface
- ❑ Switching on the PathSpeed CR SP1001
- ❑ Switchin off the PathSpeed CR SP1001

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PathSpeed CR SP1001 features

The PathSpeed CR SP1001 is a digitizer for image plates retaining latent X-ray images.

- The PathSpeed CR SP1001 accepts one cassette containing one image plate at a time. The PathSpeed CR SP1001:
  - takes the cassette containing the image plate from the cassette slot;
  - reads the cassette ID data;
  - removes the image plate from the cassette;
  - scans the image plate;
  - converts the information of the latent image to digital data;
  - erases the image plate and re-inserts it into the cassette;
  - gives the cassette ID data the status ‘erased’;
  - returns the cassette;
  - transmits the digital image data to an image processing device (‘destination’).
- The PathSpeed CR SP1001 permits assigning the status ‘emergency’ to an image. An emergency image will be given priority by the image processing device.
- The PathSpeed CR SP1001 permits re-erasing an image plate before re-using it. In specific cases, this is necessary to prevent ghost images caused by previous exposures or stray radiation from interfering with the image of interest.

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Safety precautions

General safety instructions

- The PathSpeed CR SP1001 has been designed for scanning medical X-ray image plates and should only be used for these purposes.
- The PathSpeed CR SP1001 must only be operated by qualified staff.
- Make sure that the PathSpeed CR SP1001 is constantly monitored in order to avoid inappropriate handling, especially by children.
- Only trained service personnel must make repairs. Only authorized service personnel must make changes to the PathSpeed CR SP1001.
- If there is any visible damage to the machine casing, do not start nor use the PathSpeed CR SP1001.
- If you want to connect the PathSpeed CR SP1001 with other devices, components or assemblies and if the technical data do not permit determining whether the combination with these devices, components or assemblies involves hazards, you must consult the respective manufacturers to avoid danger for operating personnel or the environment.
- Do not override or disconnect the integrated safety features.
- Switch off the PathSpeed CR SP1001 before performing any maintenance work or repairs. Disconnect the PathSpeed CR SP1001 from the mains before making repairs or performing any maintenance activities during which live electrical components may be exposed.
- As is the case for all technical devices, the PathSpeed CR SP1001 must be operated, cared for and serviced correctly.
- If you don't operate the PathSpeed CR SP1001 correctly or if you don't have it serviced correctly, GE is not liable for resulting disturbances, damages or injuries.
- When installing the PathSpeed CR SP1001, care must be taken to ensure that there is either a mains plug or an all-cable disconnecting device in the internal installation fitted near the PathSpeed CR SP1001 and that it is easily accessible.

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- If you notice conspicuous noise or smoke, disconnect the PathSpeed CR SP1001 immediately.
- Check that the voltage setting of the machine matches the power supply voltage before connecting the machine to the mains.

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Safety instructions for laser products

The PathSpeed CR SP1001 is a Class 1 Laser Product. Under normal operating conditions, *when the service doors are closed*, there can be no laser radiation outside the PathSpeed CR SP1001.

- Open the lower front door only to replace the erasure lamps or the fuses. Open the right side panel only to solve cassette or image plate jams. When you open the lower front door or the right side panel, the power supply is switched off automatically as a precaution.
- Follow meticulously the operation and troubleshooting instructions in the PathSpeed CR SP1001 User and Reference Manual. Other actions can be hazardous.

Safety compliance

The PathSpeed CR SP1001 complies with:

- the general safety regulations EN 60950, EN 60601-1-2, UL 1950 and CSA C22.2 No. 950;
- the radio interference regulations EN 55022:1997, Class B and FCC 47, Part 15, Subchapter B, Class A;
- the laser safety regulations EN 60825-1:1994 and DHHS/FDA 21 CFR, Parts 1040.10 and 1040.11.

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Operating modes

The PathSpeed CR SP1001 can be operated in three modes: operator mode, key-operator mode, and service mode.

Operator mode

The operator mode groups all basic functions which are aimed at radiographers:

- Reading an image plate;
- Reading an emergency image plate;
- Re-erasing an image plate.

A normal image plate is read automatically after it is inserted in the PathSpeed CR SP1001 cassette slot; the other functions of the operator mode can be accessed via the keypad. All functions of the operator mode are described in *Chapter 2, 'Basic operation ('Operator mode')'*.

Key-operator mode

The key-operator mode groups advanced functions which are aimed at technicians.

The key-operator mode can be accessed via the Key-operator key on the keypad and is menu-driven. The key-operator functions are described in *Chapter 3, 'Advanced operation ('Key-operator mode')'* of the PathSpeed CR SP1001 Reference manual.

Service mode

The service mode functions are reserved for trained service personnel. They are pass-word protected.

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The user interface

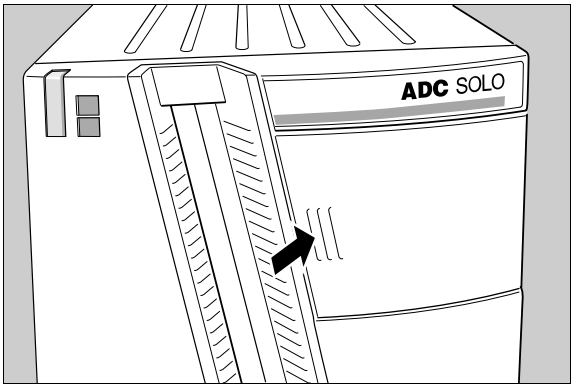
The PathSpeed CR SP1001 has three operation modes:

- the **operator mode** for basic operation;
- the **key-operator mode** for advanced operation;
- the **service mode** reserved for trained service personnel.

The functions of the operator mode are described in *Chapter 2, 'Basic operation ('Operator mode')'*. An overview of the functions of the key-operator mode is given in *'Survey of advanced functions ('Key-operator mode')' on page 40*. For detailed information on the key-operator mode, refer to the PathSpeed CR SP1001 Reference manual.

The PathSpeed CR SP1001 interfaces with the user via:

- a keypad and a display;
- a status indicator;
- emergency buttons;
- audio signals.



To access the keypad and the display, press the ribbed area.

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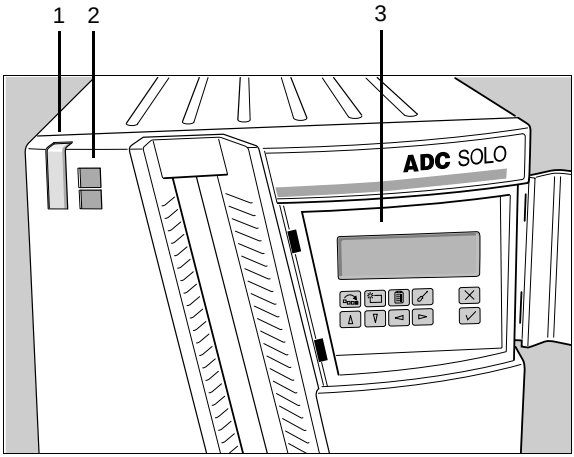

1	Status indicator
2	Emergency buttons
3	Keypad and display

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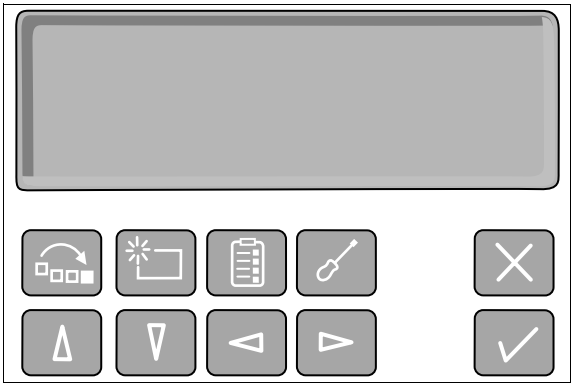
The keypad



The PathSpeed CR SP1001 keypad features the following keys:

	Emergency key	To give an image the status ‘emergency’ when it is sent to the image processing device. This key can only be used for cassettes with ID data.
	Erase key	To erase images without digitizing them. This must be done if: • an image plate has not been used for more than 3 days; • an image plate has been exposed to an exceptionally high X-ray dose.
	Key-operator key	To access advanced functions (‘key-operator functions’).
	Service key	To access service-level functions. Reserved for trained service personnel.
	Escape key	To quit the current function or exit a menu without saving modifications.
	Confirm key	In key-operator mode: • to select a menu. • to accept an entry in a menu and go back to operator mode.

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	Up key	• To move the cursor to the previous entry field. • To scroll upwards. • To increment the number in a numeric entry field.
	Down key	• To move the cursor to the next entry field. • To scroll downwards. • To decrement the number in a numeric entry field.
	Left key	• To scroll backwards through multiple choices within a field. • To move the entry position in a numerical entry field from right to left. • To toggle between values in a field.
	Right key	• To scroll forwards through multiple choices within a field. • To move the entry position in a numerical entry field from left to right. • To toggle between values in a field.

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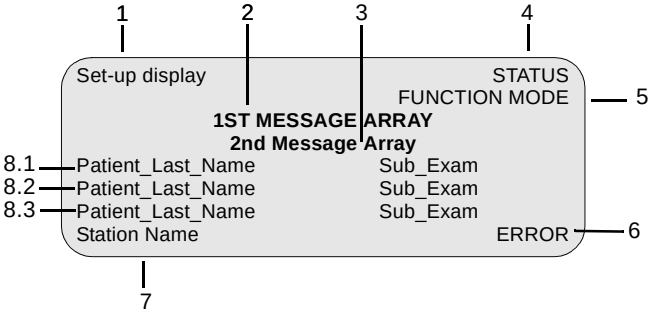
The display

The PathSpeed CR SP1001 control panel has a backlit LCD display with 8 lines of 40 characters each. Its lay-out depends on the operating mode.

- In **operator mode**, the display has dedicated areas for specific information:



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1	Set-up of image processing device: • [blank]: Default image processing device selected. • Off line: Transmission to all image processing devices disabled. • [process.station] not ready: Image processing device not available. • [process.station] rerouted: Images rerouted to other image processing device.
2	Type of message
3	Extra comment or action to take
4	System status: • READY: The PathSpeed CR SP1001 is ready for operation. • BUSY: The PathSpeed CR SP1001 is treating an image plate. • ERROR: An error has occurred. Refer to *'Troubleshooting checklist' on page 42*. • LOCKED: id. • WARNING: id.
5	Operation mode: • [blank]: Normal operation mode. • EMERGENCY: Emergency function for image plates with ID data. • EMERGENCY BUTTON: Emergency function for image plates without ID data. • ERASURE: Re-erasure function.
6	Error status: service code (SERVICE XXXXX) or error code (CODE XXXXX)
7	Device name of the PathSpeed CR SP1001
8.1 **8.2** **8.3**	Identifier of image plate being treated: After image ID data is read; During scanning of image plate and transmittal of image data; During transmittal of image data to image processing device.

The operator main screen is:

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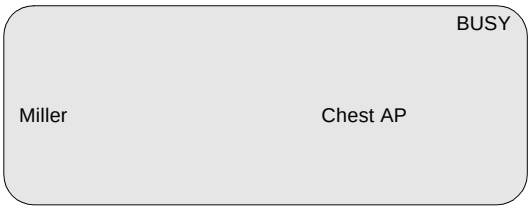
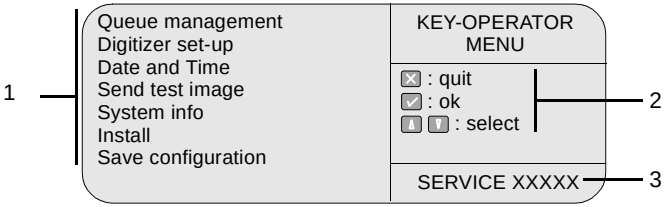
When the PathSpeed CR SP1001 is treating an image plate, it displays the following screen:



- In **key-operator mode**, operation is menu driven. The menu displays the key-operator functions, the active keys, and the service code.



1	Key-operator functions
2	Active keys
3	Service code

- In **operator mode** and in **key-operator mode**, both informational and warning messages can be displayed. Informational messages are displayed as black text against a white background; warning messages are displayed in reverse mode.

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The status indicator

At the top of the PathSpeed CR SP100
indicates the status of the PathSpeed CR

Color	Constant/ Flashing	Status	Action
Green	**Constant**	Ready	Proceed
	Flashing	Busy (treating image plate)	Wait
Red	**Constant**	Error	• Check display for mess • Refer to *'Troubleshooti checklist' on page 42*.
	Flashing	• Locked or warning • Power on/self-test in progress • Key-operator mode • Service mode • PathSpeed CR SP1001 not connected to image processing device	• Check display for mess • Refer to *'Troubleshooti checklist' on page 42*.

Emergency buttons

Two emergency buttons are located at th
the PathSpeed CR SP1001. They permit
ing emergency image plates without ID
upper button permits processing of er
images of the trunk; the lower button per
cessing of emergency images of the limbs

The emergency buttons have the followin

	For digitizing unidentified emergency images of the trunk.
	For digitizing unidentified emergency images of the limbs.

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Audio signals

The PathSpeed CR SP1001 gives status information via beeps. The length of the beep indicates the response of the system to a key command.

- A **short** beep means that PathSpeed CR SP1001 has accepted the key command and is starting the operation.
- A **long** beep means that you have pressed a non-active key or that the PathSpeed CR SP1001 has rejected the key command.
- An **interval** beep accompanies an error, locked or warning message. Refer to *'Troubleshooting checklist' on page 42*.

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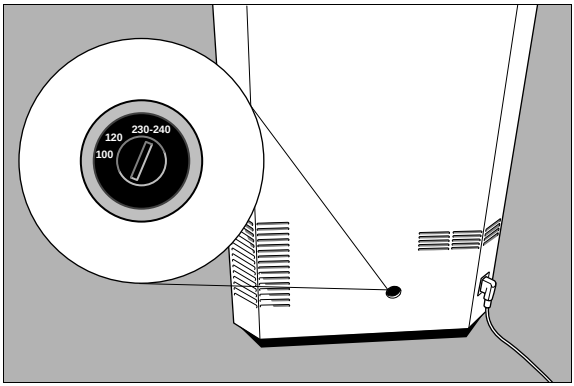
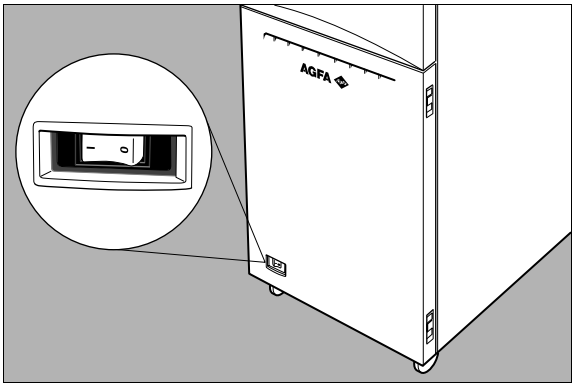
Switching on the PathSpeed CR SP1001

1 Make sure that the setting of the voltage selector at the back of the machine matches the power supply voltage.



2 Locate the main switch and place it in position ‘I’.



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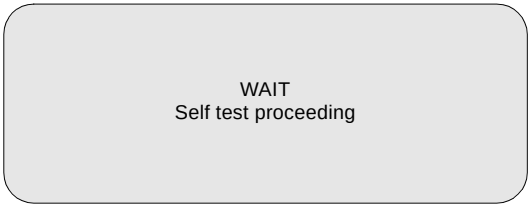
The machine starts a self-test which may take up to 3 minutes. The following screen is displayed:



❖ *During the self-test, you cannot activate any functions.*

3 If the PathSpeed CR SP1001 has completed the self-test successfully, the PathSpeed CR SP1001 enters the operator mode and displays the operator main screen:

❖ *If the PathSpeed CR SP1001 displays:*

contact your local service organization.

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Switching off the PathSpeed CR SP1001

Before switching off

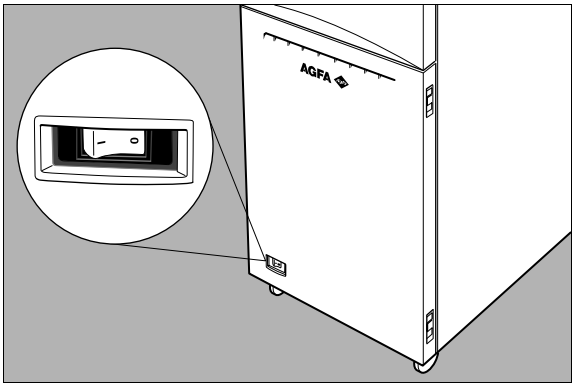
Check that the PathSpeed CR SP1001 is not scanning an image plate. If the PathSpeed CR SP1001 is scanning an image plate, the status indicator at the top of the machine is green and flashing.

Switching off

It is recommended to switch off the PathSpeed CR SP1001 at the end of the day.

Only switch off the PathSpeed CR SP1001 if you do not intend to digitize emergency image plates overnight. Switching on the PathSpeed CR SP1001 takes approximately 3 minutes. During this time emergency digitizing is not possible!

Place the main switch in position ‘0’.



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Chapter 2

Basic operation ('Operator mode')

This chapter provides basic information on how to digitize image plates under normal conditions and in emergency situations. It also treats how to re-erase an image plate to prevent ghost images caused by previous exposures or by stray radiation. These functions are available in operator mode.

- ❑ Reading an image plate
- ❑ Reading an emergency image plate
- ❑ Re-erasing an image plate

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Reading an image plate

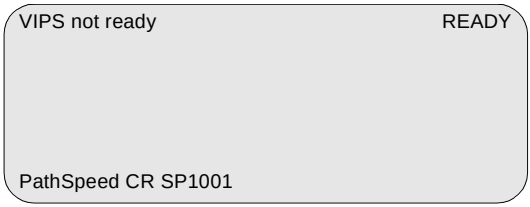
The main function of the PathSpeed CR SP1001 is digitizing image plates and transmitting digital image data to an image processing device.

To read an image plate:

1 Make sure the cassette has been identified properly via the ID station.

2 Check that the PathSpeed CR SP1001 is ready for operation:

- the PathSpeed CR SP1001 must display the operator main screen with 'Ready' status, e.g.:



- the status indicator at the top of the PathSpeed CR SP1001 must be green and be lit constantly.

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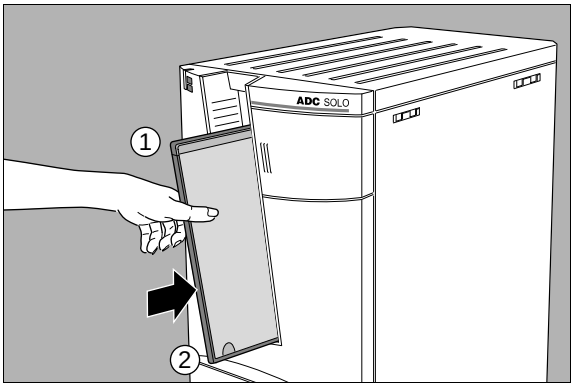
❖ *The PathSpeed CR SP1001 is operational if the status field equals 'READY', even if status messages of the destination are shown (e.g. 'VIPS not ready').*

3 Insert the cassette containing the image plate into the cassette slot of the PathSpeed CR SP1001 as shown below.

Make sure to insert the cassette with the hinge [1] at the top and the locking mechanism [2] at the bottom.



While treating the image plate, the PathSpeed CR SP1001 will display the following screen:

The PathSpeed CR SP1001:

- converts the information of the latent image to digital data;
- erases the image plate and re-inserts it into the cassette;
- gives the cassette ID data the status 'erased';
- returns the cassette;
- transmits the digital image data to an image processing device ('destination').

When the PathSpeed CR SP1001 has treated the cassette, it displays the operator main screen.

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When the PathSpeed CR SP1001 returns the cassette, it is ready to be re-used immediately. However, if you leave it for more than 3 days before re-using it, you must re-erase it first. Refer to 'Re-erasing an image plate' on page 34

- *If the PathSpeed CR SP1001 displays an error message, refer to 'Troubleshooting checklist' on page 42.*

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Reading an emergency image plate

You may have an image plate which you wish to give priority over other image plates which are being processed by the image processing device. Such image plates are referred to as 'emergency image plates'. In operator mode, you can treat either:

- emergency image plates with ID data via the Emergency key on the keypad;
- emergency image plates without ID data via the emergency buttons at the front of the PathSpeed CR SP1001.

Reading emergency image plates with ID data

To read an emergency image plate with ID data:

1 Check that the PathSpeed CR SP1001 is ready for operation:

- the PathSpeed CR SP1001 must display the operator main screen with 'Ready' status, e.g.:

- the status indicator at the top of the PathSpeed CR SP1001 must be green and be lit constantly.

❖ *The PathSpeed CR SP1001 is operational if the status field equals 'READY', even if status messages of the destination are shown (e.g. 'VIPS not ready').*

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2 Press the Emergency key on the keypad.

The display will read:

READY
EMERGENCY

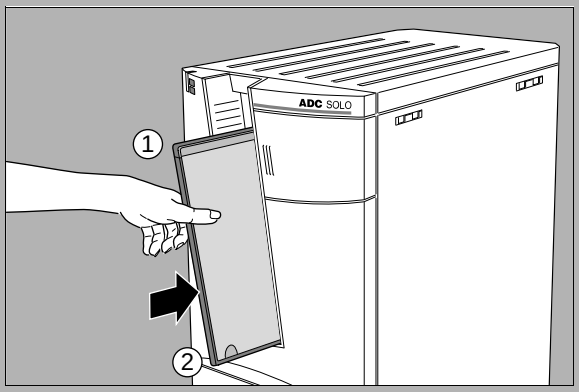
WARNING
Next cassette gets emergency status

ADC SOLO

The emergency status will only be assigned to the first image pl
you insert into the PathSpeed CR SP1001 cassette slot after pre
Emergency key.

3 Insert the cassette containing the e
image plate into the cassette slot as show

Make sure to insert the cassette with the hi
the top and the locking mechanism [2] at th



When the PathSpeed CR SP1001 has tr
emergency image plate, it displays the oper
screen.

❖ *If you do not enter a cassette within*
after pressing the Emergency key
enter a cassette without ID data, t
Speed CR SP1001 will quit the em

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function and return to the operator main screen.

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Reading emergency image plates without ID data

To read an emergency image plate without ID data:

1 Check that the PathSpeed CR SP1001 is ready for operation:

- the PathSpeed CR SP1001 must display the operator main screen with 'Ready' status, e.g.:

- the status indicator at the top of the PathSpeed CR SP1001 must be green and be lit constantly.

2 Press one of the emergency buttons at the front of the PathSpeed CR SP1001.

	For digitizing unidentified emergency images of the trunk.
	For digitizing unidentified emergency images of the limbs.

The button which you have pressed will be lit and the display will read:

The emergency status will only be assigned to the first image plate which you insert in the PathSpeed CR SP1001 cassette slot after pressing the emergency button.

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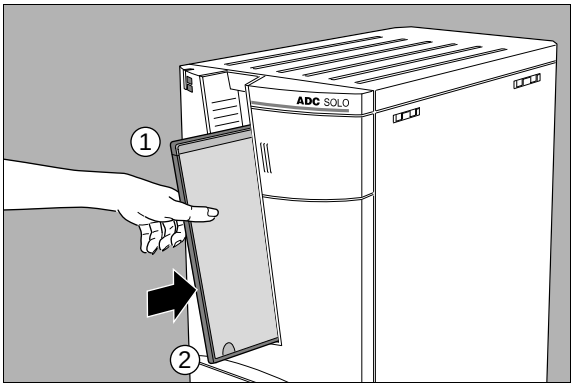
3 Insert the cassette containing the emergency image plate into the cassette slot as shown below.

Make sure to insert the cassette with the hinge [1] at the top and the locking mechanism [2] at the bottom.



The image plate will be digitized using the scan parameters for the emergency button as defined during configuration.

When the PathSpeed CR SP1001 has treated the emergency image plate, it displays the operator main screen. The digital image data are transmitted to the image processing device accompanied by default ID data. The image processing device will give the emergency image priority over the other images in the image processing queue.

- *If you do not enter a cassette within 15 seconds after pressing the emergency button, the PathSpeed CR SP1001 will quit the emergency button function and return to the operator main screen.*

- *To change the scan parameters corresponding to the emergency button, contact your local service organization.*

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Re-erasing an image plate

At the end of a normal or emergency digitizing cycle, the PathSpeed CR SP1001 returns an erased image plate. However, in the following cases, you must re-erase the image plate before re-using it in order to prevent ghost images from interfering with the image of interest:

- If the image plate has not been used for more than 3 days.
  In this case, the image plate may have been exposed to stray radiation.
- If an image plate has been exposed to an exceptionally high X-ray dose.
  In this case, deep layers of the image plate may still retain a latent image after standard erasure. Leave the image plate to rest at least one day before re-erasing it.

You can erase image plates which you have given the status ‘to be erased’ via the ID station or image plates which have the status ‘erased’.

Re-erasing image plates with status ‘erased’

To re-erase an image plate which has been erased as part of a normal or emergency digitizing cycle:

1 Check that the PathSpeed CR SP1001 is ready for operation:

- the PathSpeed CR SP1001 must display the operator main screen with ‘Ready’ status, e.g.:

- the status indicator at the top of the PathSpeed CR SP1001 must be green and be lit constantly.

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2 Press the Erase key on the keypad.

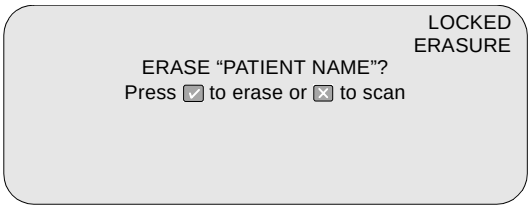
The display will read:

3 Insert the cassette into the cassette slot.

While erasing, the PathSpeed CR SP1001 will still display the above screen. When the PathSpeed CR SP1001 has erased the image plate, it displays the operator main screen.

Warning

If the above screen is not displayed but the display reads:



you have entered a cassette with ID data not having the status 'erased'. You now have the choice: either cancel erasing or erase the image plate.

- To cancel erasing and make a regular scan: press the Escape key.

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- To erase the image plate: press the Confirm key.

While erasing, the PathSpeed CR SP1001 will display:

When the PathSpeed CR SP1001 has erased the image plate, it displays the operator main screen.

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Re-erasing image plates with status 'to be erased'

To re-erase an image plate which you have given the status 'to be erased' via the ID station:

1 Check that the PathSpeed CR SP1001 is ready for operation:

- the PathSpeed CR SP1001 must display the operator main screen with 'Ready' status, e.g.:

- the status indicator at the top of the PathSpeed CR SP1001 must be green and be lit constantly.

2 Insert the cassette into the cassette slot.

The PathSpeed CR SP1001 will automatically erase the image plate. The display will read:

When the PathSpeed CR SP1001 has erased the image plate, it displays the operator main screen.

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Chapter 3

Advanced operation (‘Key-operator mode’)

This chapter gives an overview of the key-operator functions, preventive maintenance actions and troubleshooting.
For detailed information on these topics, refer to the Reference Manual.

- ❑ Survey of advanced functions (‘Key-operator mode’)
- ❑ Preventive maintenance work
- ❑ Troubleshooting checklist

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Survey of advanced functions (‘Key-operator mode’)

A survey of the functions which are available in key-operator mode is given below. For detailed information, refer to *Chapter 3, ‘Advanced operation (‘Key-operator mode’)’* of the PathSpeed CR SP1001 Reference manual.

Function in key-operator main menu	Section in Reference Manual
Queue management	*Consulting the image transmission queue (‘Queue management’)*.
Digitizer set-up	*Customizing the PathSpeed CR SP1001 (‘Digitizer set-up’)*.
Date and Time	*Setting the date and time*.
Send test image	*Sending test images*.
System info	*Consulting information on thePathSpeed CR SP1001.*
Install	*Installing a new software version*. *Installing a new language*. *Installing new customer parameters*.
Save configuration	*Saving the configuration data on a diskette (backup)*.

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Preventive maintenance work

The only maintenance action which you must perform is checking the image quality. Refer to the Reference manual of the image processing system.

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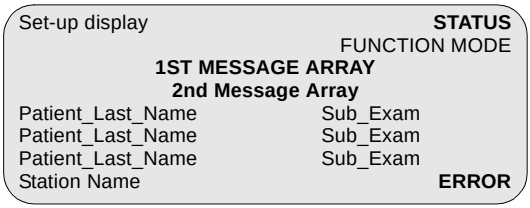
Troubleshooting checklist

A survey of possible problems is listed below. If corrective actions are straightforward, they are given below. The more elaborate troubleshooting procedures are explained in detail in *Chapter 4, 'Preventive maintenance and troubleshooting'* of the PathSpeed CR SP1001 Reference manual.

General errors

Error	Action
The PathSpeed CR SP1001 does not start up.	Refer to *'Checking the voltage supply' on page 81* of the Reference manual.

Errors during operation



Status field:	**ERROR**
Error field:	'SERVICE XXXXX'
Contact your local service organization.	

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Status field: Error field:	**ERROR** 'CODE XXXXX'	
MESSAGE 1	**Message 2**	**Action**
POWER SUPPLY OUT OF TOLERANCE	1. Check setting of voltage selector switch on back panel. 2. Check fuses of the machine 3. Check supply voltage.	Refer to *'Checking the voltage supply' on page 81* of the Reference manual.
IP JAM	1. Remove right side panel 2. Put plate back into cassette. 3. Close right side panel.	Refer to *'Solving image plate and cassette jams' on page 84* of the Reference manual.

Status field:	**WARNING**	
MESSAGE 1	**Message 2**	**Action**
ERASURE LAMP [X], [Y], [Z] DEFECTIVE	Press ☑ to complete, IP is not erased	• Press Confirm key. • Refer to *'Replacing the erasure lamps' on page 76* of the Reference manual.
SCANNER WARNING	Possible bad image, press ☑	• Press Confirm key. • Contact your local service organization.
[PPNAME] NOT READY	Please check and press ☑	• Check image processing device. • If image processing device is ready, press Confirm key.
CORRUPTED MESSAGE IN QUEUE	Please press ☑ and check queue	• Press Confirm key. • Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual.

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Status field:	WARNING	
MESSAGE 1	**Message 2**	**Action**
UNKNOWN DESTINATION [PPNAME]	Please press ☑ and check queue	• Press Confirm key. • Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual.
ERROR WHILE LOADING LANGUAGE FILE	Default language is used, please press ☑	• Press Confirm key. English will be used. • Restart PathSpeed CR SP1001. • If the problem persists, contact your local service organization.
PARTLY SCANNED IP DETECTED	Possible loss of image, press ☑	• Press Confirm key. • Check image at destination.

Status field:	LOCKED	
MESSAGE 1	**Message 2**	**Action**
IP NOT SUFFICIENTLY ERASED	Press ☑ and erase again	• Press Confirm key. • Refer to *'Re-erasing an image plate' on page 34*'.
EMPTY CASSETTE	Press ☑ to get cassette	• Press Confirm key. • Remove cassette. • Insert cassette containing image plate.
CASSETTE WRITE ERROR	Press ☑ to get cassette	• Press Confirm key. • Remove cassette. • Use another cassette. • If problem persists with other cassettes, contact your local service organization.
WRONG CASSETTE	Press ☑ and remove cassette.	• Press Confirm key. • Remove cassette. • Insert correct cassette in the right way.

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Status field:	LOCKED	
MESSAGE 1	**Message 2**	**Action**
CASSETTE IDENTIFICATION ERROR	Press ☑, remove and identify	• Press Confirm key. • Remove cassette. • Re-identify cassette. • Re-insert cassette.
CASSETTE READ/ WRITE ERROR	Press ☑, remove and try again	• Press Confirm key. • Remove cassette. • Re-insert cassette. • If problem persists, initialize and identify cassette via ID station. • If problem persists with other cassettes, contact your local service organization.
CASSETTE NOT IDENTIFIED	Press ☑, remove and identify	• Press Confirm key. • Remove cassette. • Identify cassette. • Re-insert cassette.
24 X 30 CM CALIBRATION MISSING	Press ☑ to accept or ☒	• Press Confirm key to treat 24 x 30 cm image plate without calibration or press Cancel key to treat cassettes with other formats. • Contact your local service organization.
SERVICE MODE	Please wait	Wait.
CASSETTE SLOT BLOCKED	Remove cassette, press ☑	• Remove cassette. • Remove obstructing objects. • Press Confirm key.

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Status field:	LOCKED	
MESSAGE 1	**Message 2**	**Action**
IMAGE-QUEUE FULL	Check queue	• Refer to *'Consulting the image transmission queue ('Queue management')' on page 32* of the Reference manual. • Check that the PathSpeed CR SP1001 is not off line (Refer to *'The display' on page 17*).
UNKNOWN DESTINATION [PPNAME]	Press ☑, remove cassette and identify	• Press Confirm key. • Remove cassette. • Identify cassette. • Re-insert cassette. • Check the configuration of the system.
RIGHT SIDE PANEL NOT CLOSED	Close right side panel	Close the right side panel.
UNKNOWN IP-TYPE	Press ☑, remove cassette, call Service.	• Press Confirm key. • Remove cassette. • Contact your local service organization.
EMERGENCY DATA NOT DEFINED	Emergency keys disabled, press ☑	• Press Confirm key • Contact your local service organization.

Errors when handling diskettes

Error	Action
Wrong or missing volume label	• Remove floppy. • Insert floppy with correct label. • Press Confirm key.
Floppy not formatted	• Remove floppy. • Insert formatted floppy. • Press Confirm key.

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Error	Action
Floppy full	• Remove floppy. • Insert empty formatted floppy. • Press Confirm key.
Floppy write protected	• Remove floppy. • Remove write protection from floppy. • Re-insert floppy. • Press Confirm key.

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Appendix A

Equipment information sheet

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Specifications

Product description	
Type of product	Digitizer
Commercial name	ADC Solo
Model number	5155
Original seller/manufacturer	Agfa-Gevaert NV-Mortsel
Labelling	
CE	93/42 EEC 'Medical Devices' (Europe)
UL	UL 1950, CSA 22.2 No. 950 (North America)
CUL	(North America)
Dimensions	
Length, at cassette slot	730 mm
Length, at foot	700 mm
Width	450 mm
Height	1408 mm
Weight	
Unpacked	215 kg
Electrical connection	
Operating voltage	Europe: 230 V ± 10% USA: 120 V + 6%, -10% Japan: 100 V ± 10% 208 V + 6%, -10%,
Mains fuse protection	Europe: 16 A, slow blow USA & Japan: 15 A, slow blow
Mains frequency	50/60 Hz

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Power consumption	
Standby	
• 230 V/ 50 Hz configuration	230 W
• 208 V/ 60 Hz configuration	227 W
• USA: 120 V/ 60 Hz configuration	216 W
• Japan: 100 V/ 60 Hz	220 W
During operation	
• 230 V/ 50 Hz configuration	max. 1610 W
• 208 V/ 60 Hz configuration	max. 1470 W
• 120 V/ 60 Hz configuration (USA)	max. 1440 W
• 100 V/ 60 Hz (Japan)	max. 1500 W
Environmental requirements	
Room temperature	15 °C - 30 °C
Maximum temperature change	0.5 °C/min.
Relative humidity	10 % - 75 %
Magnetic field (Dynamic)	compliant with EN 61000-4-8, Level 5
Sunlight exposure	not be operated in full sunlight
Warming-up time	
• Cold start	fully operational after max. 30 min.
• Warm start	fully operational after self-test if not switched off for more than 3 min., after 30 min. operation
Cassette format	**corresponding IP format**
24 x 18 cm	238 x 178 mm
30 x 24 cm	298 x 238 mm
35 x 35 cm	354 x 354 mm
35 x 43 cm	354 x 430 mm
30 x 15 cm	298 x 148 mm
12 x 10”	303 x 252 mm

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10 x 8”	252 x 201 mm
Physical emissions	
Noise emission (sound power level according to ISO 7779)	
• During scanning	max. 65 dB(A)
• Standby	max. 45 dB(A)
Radio frequency emission	according to EN 55022:1997, Class B and FCC, Part 15, Subchapter B, Class A
Heat emission	
• During scanning	max. 1610 W
• Standby	230 W
Cassette return time	60 - 72 secs
End of Life	
Estimated product life (if regularly serviced and maintained according to GE instructions)	7 yrs.

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GE Medical Systems

GE Medical Systems: Telex 3787371
P.O. Box 414, Milwaukee, Wisconsin, 53201 U.S.A.
(Asia, Pacific, Latin America, North America)

GE Medical Systems—Europe: Telex 698626
283 rue de la Miniere, B.P.43, 78533, Buc Cedex, France

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